ten and that the men in the office are giving encouragement and assistance. Every such union and every organization of men which admits women are among the most prominent influences in the direction of equal suffrage. A weak point in this movement has been the failure to enlist working women. During the first half of its fifty years' existence wage-earning women were too few to constitute a distinctive body or class. In the last twenty-five years there have been any demands on the time and resources he national association that it scarcely has been able to decide which was most press-Whenever workingwomen form a

on they soon will learn that, even though following precisely the methods of workingmen's unions, they have by no means the influence of the latter. And when men admit women to their own organizations they find that they have increased their numbers but added very little to their strength. It will not be necessary for any committee of the national suffrage association to enlighten them as to the reason for this discrepancy, for it is inevitable that in the near future the workingmen of the country will demand the ballot for working women as a matter of self-protection and as a direct benefit to these women, who are in reality members

of their own families. There is a much stronger demand for the franchise among the wage-earning women of England than among those of the United States An example of this was recently given in a deputation of fifteen women selected from the workers in the cotton factories of Lancashire to bear a petition to Parliament. It was signed by almost thirty thousand women operatives in these mills alone, and "looked like a big garden roller" as it was displayed in the lobby of the House Commons. The women who addressed Parliamentary Committee stated that of Commons. The women who addressed the Parliamentary Committee stated that many of these signers were the sole support of their children and often times of their parents; that frequently there was a worthless husband in the family and yet when it came to a voice in public affairs he alone possessed a voice in public affairs he alone possessed a voice and that, as a result, the children, especially the boys, formed a far more exalted opinion and were much more under the influence of the father than the mother. It had been said that women could join the trades unions and be represented by them, but in numerous instances, women paid in their weekly dues but were not allowed to attend the meetings, and if a male member told a woman member what action was taken he was fined two and six. Their unrepresented condition put the regulation of their work entirely in the hands of men. They had to bear their share of the financial burden of the nation and obey the laws which they had no voice in making or also the full punishment; in all such matters two were placed on an equal footing with men, but when it came to having a voice in the government they were classed with children and imbeciles. This not only lowered the character of the nation but, in barring women from a share in its responsi-

The prediction made in this department that the new law in New York granting the ballot to women taxpavers would have a farteaching influence is being fully justified. It would be impossible to quote from even a considerable fraction of editorials to this effect in all parts of the country. The Pitts burg Times says: "The recognition of the right of the woman taxpayer to have some voice in questions which will affect the amount of her taxation by the lawmaking power of in securing a similar right in other States. arg step toward the complete extension to suffrage, for the property qualification as not a popular one, and it will not be a before non-taxpaxing women will be useful the equality of rights, and they will be easily put off." The Baitimore Americans the property of the such taxetion as we pay to-day would be he easily put off. The Raitmore Americanserves: "A notable victory has been a hy the women of New York State. The how they women of New York State. The body would be the seems like simple busiles, but it is more long delayed, for its actocates have to fighting for it for years." "The body putting women on an equality is a layer in following suit when it is concert that the sex desires such equality." It is a layer and to him Fleind and released its to seem that the sex desires such equality. The is a layer and to him Fleind and released its to seem that the sex desires such equality. The is a signal victory. The Newborth is the day will never come when women is a first for nothing but the despotism of a mand the country will go to smash." It is a partituded to take the government is a first for nothing but the despotism of a mand the country will go to smash." It is a partituded it, "huse appressing the common man that the services of the women have we himedided it, "huse appressing the common man that the services of the women in the green arguing articles to prove that one many in a property and have premium upon war and blood-ded. If we must have pensions, since a beginning of labor. This system is a perpetual premium upon war and blood-ded. If we must have pensions, since a beginning of the first wide of a premium upon war and blood-ded. If we must have pensions, since a beginning of the first wide of a premium upon war and blood-ded. If we must have pensions, since a beginning of the first wide of a premium upon war and blood-ded. If we must have pensions, since a beginning of the first wide of a premium upon war and blood-ded. If we must have pensions, since a beginning of the first wide of a premium upon war and blood-ded. If we must have pensions, since a beginning of the first wide of the property and the country will go to stand the first wide of the property must be passed to the women of the first wide of the property must be present and prospective, that Is f

THE CAUSE OF WOMAN.

WOMEN TRADE-UNIONISTS AND THE QUESTION OP SUPPRAGE.

The Suffrage Associations Made a Mistake in Not Looking for the Aid of Working Women—No Such Error in England—Significance of the New Franchise Law in This State Fully Recognized—The National Council of Women Meets.

The press despatches this week state that crangements have now been perfected for organizing a union of the one thousand women in the bookbinding department of the Government Printing Office at Washington and that the men in the office are giving and that the men in the office are giving to many the propagation of the Suffrage of the Suffrage of New York will find in the new law a valuable means of protection against the reckless or unintelligent spending of public funds by constituencies made up in large part of voters who pay no taxes and have but a small stake in the community. The Jamestow (N. Y.) Journal declares: The commonest sort of justice would hold that women taxpayers should have a voice in the disposition of taxes. A woman stockholder in a private corporation has a voice in its affairs, and the possession of property in a town or village should give her the same right. The New York Evening Post, which always has opposed suffrage for women, makes this comment:

"Surpring and the privilege in any State. Taxpaying women in the villages of New York will find in the new law a valuable means of protection against the reckless or unintelligent spending of public funds by constituencies made up in large part of voters who pay no taxes and have but a small stake in the community. The Jameston of voters who gainst the possession of property in a town of village should give her the same right. The New York Evening Post, which always has opposed suffrage for women, makes this comment:

"Surpring and the possession of property in a town of village should give her the same right." The New York Evening Post, which always has opposed suffrage for women, makes this comment.

Strong arguments for this measure were found in undisputed cases of serious in-justice, where a large proportion of the prop-erty in a place is owned by women who are allowed no voice in the laying of taxes upon it or in the disposition of the money thus raised, although these very women, as stockholders in a business corporation, might vote on equal terms with men

Scores of papers have made use of this stockholder's argument, and yet, just half a century ago, in 1851, Geroge William Curtis delivered a lecture in many cities entitled "Fair Play for Women," in which he called attention to the anomaly of permitting a woman who owns railroad stock a vote in matters pertaining to the corporation, but if she sells the stock and buys a house with the proceeds, refusing her a vote in regard to the road in front of her door or any question concerning the municipal corporation of which she is a taxpaying member His appeal for fair play fell upon deaf ears

and dumb consciences that are only now beginning to hear and speak. But how is beginning to hear and speak. But how is it that, if this measure is one of such absolute and unquestioned justice, the newspapers, those valued public mentors, have just dis-covered it? Why have the women not had their constant assistance during the three those valued public mentors, have just discovered it? Why have the women not had their constant assistance wiring the three or four years they have been trying to get this bill through the New York Legislature of orbiding women made the laws in the first place of orbiding women taxpayers a vote, and since they still have absolute power, and since they still have absolute power, and since this is a matter of such unqualified justice, why must women organize and raise money and keep a lobby at the Legislature to obtain this right for themselves? Are the editors ready to make the fight next winter to see our it for taxiaving women in the cities of this Nate? Will this be done in other States, or must the women in all the forty-five continue the struggle indefinitely?

The New York State League of Taxpayers, recently organized, has announced its intention of obtaining equal rights for taxpaying women, and perhaps the them may come when other associations of men will make it a part of their business to secure equality of rights for women who are good citizens, even if they do not own property.

But have women nothing more serious to fear from "reckess and ignorant vectors than the "spending of public funds." Has not the mother of children an infinitely mere valuable stake, and has she not vastly more to fear from the ignorant and vicious votes than simply the misuse of public funds. Are there of children an infinitely mere valuable stake, and has she not vastly more to fear from the ignorant and vicious vote than simply the misuse of public funds. Are there of children an infinitely mere valuable stake, and has she not vastly more to fear from the ignorant and vicious vote than simply the misuse of public funds. Are there of children an infinitely mere valuable stake, and has she not vastly more to fear from the ignorant and vicious vote than simply the misuse of public funds. Are there not evils threatening the home with the public funds. Are there or the value of money, what a strange pervention of the higher idea

inspected burden of the nation and obey the law which they had no voice in making or at the full punishment in all such that a concerns on the law which they had no voice in the secretary with the property of the full punishment that were classed with the government they are considerable of the nation but, in has all the same that the property of the national connects of the character of the nation but, in has all the same that the property of the national connects of the character of the national connects of the property of the property of the property of the national connects of the property of the p that conference the most important result and from Mills seems appropriate that the women of world, the universal advocates of peace, outlined the state of the s

the world, the universal advocates of peace, should colebrate this day with fitting exer-cises and send their greatings to their broth-ers in conference across the sea. If expectorating in public is an absolute necessity, why is it wholly confined to men?

IDA HUSTED HARPER.

#### Overtaxed and Misgoverned.

TO THE EDITOR OF THE SUN-Sir: If the women who now oppose equal suffrage for And sme their sex only knew the political evils to which The day they are subject, and the crying need of a the Empire State must have much influence | wiser, purer, more economical government | When in city. State and nation than now exists | An' dart result of the New York experiment will they would make such an argent demand The chi for suffrige as would soon prove effectual result of the New York experiment will be considered by the people of Pennsyla, and if it shall be found to work well it probably not be long before there will be form under to put a similar law upon the de books of this Commonwealth.

In a word the same tax and the same tax and the majority were then, are poorer now than the majority were then, notwithstanding the yastly increased propagation. cause taxation has increased fifty-fold since | You wonder where the trout can be that played in notwithstanding the vastly increased pro-

with Spain and the Philippines, or who hereadomoral opinion that the services of the women in the home, while men are outside accumulating world, have no money value. And still people write magazine articles to prove that women should be suisified to contine their librate to the homsehold, accept thankfully served that the trial that the still people write magazine articles to prove that women is bound to suisified to contine their librate to the homsehold, accept thankfully with the first that the trial that the still that the did not earn a cent of it more on the important point out the danger of the based of the homseholds" transferring a portion of his read retails to the women of his property for the solid of the homseholds" transferring a portion of his read retails to the women of his property. I have been in this general more thankfully and historian in the value of the ballot if its possible to the state of the same of his grant popularity owners in the same of the same

POEMS WORTH READING

In an Old Bookstall. From the Boston Pilot. Here for a song you may command Old books, well thumbed and hoary; Along the grimy wails they stand, Tomes of immortal story. And out of reach, on leftler shelves, Beyond our small ambitions And slender purse, dwell by themselves The costiler "first editions."

There let them rest till Crosus comes; We really do not need them. Content to banquet on the crumbs. We buy our books— and read them! The one that hears the marks of use, Back-broken, worn and shattered. Is dearer that its leaves are loose, Its poor frame rent and tattered.

This grim old keeper of the stall Inis grim old neeper of the stall
Tends these dead thines in leather
And sheep and cloth and parchment—all
Close sepulchred together;
And few, alasi besides ourselves
Who prowl about the portals,
Seek out along the dusty shelves
The names of these immortals.

Here where the city's life goes by.
Where wheel and wagon rumble,
Wasped in their cerements they lie,
The lofty and the humble.
Dust unto dust—but from their sleep
Come bright, immortal flashes.
Their spirits into being leap
From out their crumbling ashes.

They are not dead, these silent tomes They die not, save in seeming:
They die not, save in seeming:
Far from these bookish catacombs
They fill the world with dreaming.
And each that some small message gives,
Or makes for high endeavor.
Puts off mortality, but lives
And works its will forever!

JOSEPH DANA MILLER.

From the Boston Evening Transcript Life's opening voyage, Lord. Thou didst safely keep O'er childhood's sheltered bays. As now the tides of age around me creep. Protect my shortening days.

Thou didst defend my youth when sped my bark Out toward the open sea;
As I approach the shore, unknown and dark.
Still guard and care for me.

From the Frog Ponds. From the Dicky Kenneber Journal

I like to walk at dusk along the meadow road, an'

der the buttercups the meadow larks | sends us the following:

I listen as I walk along and seems to me I hear. The whispitings of the growing things a coming sharp an clear.

Along the darkened meadows where the key pools. Will push axide to-morrow for the young blades grow-For all of nature seems to wake and attr as soon as

The Men Who Shift the Scenes. From the Portland Morning Oregonian. Promine Portland About the scenes,
Does mercy play no part
In your hard lives, have ye no means
of grace, no soul, no heart
Ye wink at crime and mock at woe,
And hard the standard works.

Beneath the dread oppressor's feet The leading man doth lie.

And vainly for his life entreat.
While you stand idly his.

Should you but rush upon the stage.

And boldly intervene.

The knave would beliew forth his rage.

And vanish from the scene.

The herothe, most fair to see, is in the villatin's power, But do you come to set her free. In this most trying four. Not you. Devoid of chivalry, You see her hathed in teas.

You see a man, on murder bent, Sneak im behind his friend

When tyrants fight the brave and true, As you have seen them off.

From your commanding point of stew.

In youder figuring loft.

You let the erasen arms 20,

When you lie fide might stem.

Hy simply stooping down to throw.

A super down on them.

Stage villatins of the deepest dye.

Are 'round you all about,
And you ne'er lift a hand to try.
To put the rascals out.
You look like honest farmers in
Your jumpers and blue leans,
But all I know you're men of sin,
Ye rogues who shift the scenes.

QUESTIONS AND ANSWERS. Hindly inform me if the present Emperor of Germany has been crowned and the date of coronation. If he has not been crowned please give the reason why. W. K. C.

He has not been crowned. There is no crown for him to use, as he has no sovereignty as Emperor, but merely the headship of the Confederated States of Germany. Only two Kings of Prussia, Fried-

In the inquiry column on April 28 J. A. G. wan to to know how to date a letter with numerals, and why. It is and was a Quaker custom, the date 4-29-01 meaning in spoken language, "fourth month, twenty-ninth day, nineteen hundred and one." The mofith number must precede the date number to avoid error.

J. S. D.

Apropos of the new steamer Der Grosse Kurfuerst, my friend and myself have made many inquiries of the meaning, or translation of the noun
Kurfuerst. None of a score of educated Germans
nave been able to give us a satisfactory definition.
Some said: A selected prince. Others, a landed
prince. Again, a prince, higher than an ordinary
prince and not so high as a King. Will TRIS Sux
publish the true meaning of Kurfuerst. J. L. L. Kurfuerst means Electoral Prince, one of the Fuersten or princes who chose the German Emperor. Kur

Will you kindly define the exact social status of the physician in England? In a conversation a few evenings ago there was a wide divergence of opinion on the subject, one party claiming that the physician ranked so far below the nobility that in attendance upon them he was often required to enter at the ser-vants' door. Is this true?

The position of the physician in England is the lowest among professional men, clergymen of the established church and barristers ranking him. We do not know that a physician is required to enter at

In reference to the famine in Ireland in 1847 A says Queen Victoria afforded no relief to the suffering Irish people. B says she gave \$1,000 to the Irish Famine Fund. P. WHITE. We flud no record to show that she gave anything

I have an antique watch which descended to me from my great-grandfather. It is of gold and bears evidences of once having been coated with ename. On the inside is the name of itsilion, Paris, evidently the maker. Could you give me any idea of its age.

Jean Baptiste Ballion, "horloger du Roy," was making watches and clocks in Paris in 1760. We do not know when he died or retired; but your watch is upward of 140 years old.

Are there any statistics to prove whether or not capital punisument has tended to decrease edime of mirder? 2. Can you also give statistics as to the number of life prisoners escaping of being pardoned. Other ascensions at Vienna and Berling. Was capital punisument ever abolished in New York State?

murder, and others to show that it has not done so: the question is still open. See the "Cyclopædia of Social Reform." 2, No. 3, It was abolished by the acts of April 14, 1860, and May 4, 1861, and restored by the act of April 12, 1862.

to an injury never mentioned any attack by the "White Boxs" at Rathlease. I said as it was at inchantants House," near askeaton. This was the home of one Hunt, a handing Magistrate. The so called informer of that event was not forman, but a noll-king dramier taken from "Snanid" named Scanlon, and his knamed "Lauveen, the storyteller," and as the balled says as it to shield him from the hatted name of an informer.

Same fashion. "Shure twas the whiskey punch in poor Lauveen limit gave the pass away."

they used the words. "Salt them nown well they are only Croppys." Mr. Latchford says. "That this remark or something like it was really made by overgleane, a Magistrate." Inly is not contect, deorge leave, generally called Lake, was not a Magistrate, he could not be one he was a Catholic gratientant. He lived at the "abbey" near that part of the town known as "herchmount." The Vere Hunt of Mr. Latchford was of a different family. The shooting of Major Gowen, a monster in human form, "tis true occurred after Incharnark. Gowen was on his way to Rathikeale from Wailars of Castletown in "herry." He was walched all the way by the "lovs," who intended to shoot him in the woods at Holly Park. Langford of that place warned him of his danger. Owing to the great heat of the day his horse got lired and was going slowly. As he turned into what was known as the "formmons" he was fired at from both sides and tumbled into the ditch, dead. Some time after, the "Rakate" pecters publim on a door and carried him into the town Court House, it was said next day that his ears were cropped off sometime through the high. I he suspected informer that took the forwer "blood money," I have not "forgoten," but will not mention the name in respect to some of his "offspring" now holding high positions in what is known as society here in America. Thomas is Coronwella.

much like his was initiated a Mason in Mexico, about Royal Library, of which a complete catathe time that Father Mastai Ferretti (later Pius IX.) logue has been prepared by Prof. Bezold was in South America; the slight coincidence has for the British Museum. Ashurbanipal was been used as the basis for the story that he was a | the great literary king | He had copies made

The hylas from the chilly ponds assinging loud an' the ground at the same time. Firing in the open atr, clear, clear, the muon a shining down upon the sadden dels the projectile dropped from the gun will reach the fixing of a very groat number of events heground before the one fired.

the brook a dreamin' of the br

South Africa see the gazetteer under the different | the similar histories recorded in the Bible. "Dom Paul's People" and Regan's "Boer and titt-"British Africa," in the British Empire series, will give such information about the British | translated and the catal same refers the reader

Deter Buens Frederick Law Olmstead, in his "Texas" and other books of Southern wavel, published in 1856, and Mrs. Stowe, in "Dred" published in the same year, five years before the war, speak "poor white trash," so that it is evident there were such "trash" in the South before the Civil War.

Mrs. Manning Queen Victoria had no maiden name; her family became important before family names were adopted. Prince Albert had no family name for the same reason. "R. L" of the the King's signature stands for the Latin words "Rex Imper- Epsilon Andremedic, 84 kin (approaching). ator." King and Emperor.

J. W .- The Supreme Court of the United States holds only one term a year. That opens in October; a recess is taken at Christmas, and another in the spring the term adjourns in May.

Stuart Chamiller - A widow uses her own name in legal matters, but in social affairs describes herself as Mrs. John Smith, not as Mrs. Annie Smith. J. Walloughby -A gunner in the navy ranks as a warrant officer; his pay is from \$1,200 a year, at sea,

on appointment, to \$1,500 a year after twelve years' Emfly Mettger - In English, the moon, when perman, for in German the moon is masculine.

r D. Allen A child born to German parents on the high seas on an American vessel may be an Amer-James Brown-In America "a hotel" is proper. "Humble" is pronounced as spelled, in this country,

"Pall Mall," the name of a street in London, is pro-G. E. G. -The Post Office in this city was begun m 1867, completed in 1876, and first occupied Sept. | proximately

SECONDARY RADIO-ACTIVITY

In the course of his studies upon the radioactivity of uranium, M. Henri Becquerel has observed a secondary radiation which he is now engaged in studying. In a recent note he sums up the results so far attained. The emission of radio-active bodies (uranium, radium, &c.) comprises several orders of radiation: (a) a gaseous emanation which incites induced radio-activity, and which will not pass through glass or mica; (b) of radiations, which are the subject of the present study. These consist of various parts, as follows: First, a part not subject to deviation by a magnetic field and very subject to absorption; second, a part that is deviated by a magnet. This species of radiation appears identical in nature with the cathode rays. In a magnetic field it is dispersed into different pencils of rays, each bundle having a different velocity of translation; third, a part not subject to deviation in a magnetic field and very penetrating, i. e. not easily absorbed.

CONSUMPTION OF COFFEE. The total annual consumption of coffee ls: United States, 802,000,000 pounds; Germany, 344,000,000; France, 179,000,000, Austria-Hungary, 92,000,000, Italy, 31,000,000; Great Britain, 29,000,000, Russia, 18,000,000. The United States thus consumes more coffee than all other countries together; it has imported coffee as follows: In 1870, 231,000,000 pounds 1880, 440,000,000; 1890,490,000,000. The amount per inhabitant was in 1870, six pounds; in 1898. 11.4) pounds; 1899, 10.55 pounds. France uses, per inhabitant, 4 6 pounds; Austria, 2 pounds; Great Britain, 07 pound. The importations come from different countries as below: Brazil, 628,000,000 pounds; Venezuela, 62,000,000; Colombia, 28,000,000; Mexico, 27,000,000; Costa Rica, 17,000,000 Guatemala, 15,000,000.

TEMPERATURES OF THE HIGHER AIR Recent balloon ascensions have furnished he following data: A balloon sent up at racow to a height of 4,000 metres (13,123 feet) registered a minimum temperature of 23.9 degrees C. (11 degrees Fahr.) A balloon from Berlin rose to 9,490 metres (81,135 feet) and registered 55 degrees C. 67 degrees Fahr.). A balloon from a point near Paris rose to 12,700 metres (41,666 feet) and registered 55 degrees C A ballo n sent up at Strasburg rose to 8,000 metres (26,247 feet) and registered 45 degrees C (490 degrees Fahr). Other ascensions at Vienna and Berlin gave

THE METALS IN ANCIENT EGYPT. glyphics. This object was found at Thebes and dates from the seventh century before Christ It is not only remarkable as a The White Boy information from James Latentord of Chawa was very interesting, but unreliable as to details. My answer in This Six of April 11 to an inquiry never mentioned any attack by the "White Boyes" at Hambesia. I said as it was at "incharmans House." near askeaton. This was the home of one Hunt, a banding Magistrate. The

SUBMARINE PROTOGRAPHY M. Louis Boutan has recently published The password for that night, issued by the leader, has Funda Malowiev was Where are you going a volume upon submarine photography and going back to the bog, cutting tarf." What "To the men into the pit and covering and it appears that it is now perfectly my with lime occurred early in the morning. This will be bodge by a great many of former neighbors who lived near by and who saw a alive as they were dragged out of the "craed," harrack sall is only a few test from the "Choppy a." Into wall was growded with solders and used the words. "Salt them down well, they only Croppys," Mr. Latchford says, "That this

mention the name in respect to some of his "offspring" centuries before Christ, Sarzon. King of now holding high positions in what is known as society here in America. Thomas E. O'CONNELL.

Assyria, had the business affair of the king-city here in America. dom recorded on such tablets and his suc Was Pope Plus IX. ever a Mason? What was bis connection, if any, with secret societies? What banipal, possessed wast collections of the are the facts and the authorities? He never was a Mason. A person with a name sort. Taken together these constitute the of many of the great Sumerian literary com-If a ball is fired horizontally from a cannon or rife, and at the moment of exit from the end of the cannon or rife, and at the moment of exit from the end of the cannon or rife, an exact duplicate is dropped perpendicularly from the point of exit, which will reach the ground first, disregarding the effect of wind and atmosphere. A holds that the ball which is fired from the ground, while is says that each will strike the ground, which is, of course, assumed to be absolutely level, at the same time. Which is right?

You can't disressed the effect of wind and atmosphere is a control of the ground with the same time. Which is right?

You can't disressed the effect of wind and atmosphere is a control of the great Sumerian literary compositions, and to these he added interiment translations into Assyrian, a fact which indicates that the knowledge of Sumerian was disappearing when he began to reign. Official annals were drawn up under the personal supervision of the King, giving full accounts of military expeditions, building operations. Accounts of military expeditions, building operations. You can't disregard the effect of wind and atmosphere, unless you perform the experiment in a vacuum, in that case B will be right, both projectiles will reach officials in all parts of the kingdom. Chronos

tween the years B C 900 -640. Contracts relating to all the principal to erect a sun dial, the Rev C. F. Woodman, C. S. P., of astrological tablets proves that the war-Any given star is on our particular meridian when the right ascension of the star is the same as that of the meridian itself, in other words, when the R. A. of the star is equal to shereal time. To find out, therefore, when any star is on our local meridian at any given date, we have only to take out, from the Namiceal Almanac," the R. A. of the star, and the sidereal time for the R. A. of the mean sum for that date. Substracting the latter from the former dading 24 hours to the former R date with the R. A. of the mean sum is given in the almanac only for the moment of Greenwich moon, as must add our longitude (In times to the form mean time, and with their sum—the interval from Greenwich moon)—correct the mean sum is given in the almanac only for the moment of the local mean time, and with their sum—the interval from Greenwich moon)—correct the mean sum is a large number of "prayers". Along the darkened meadows where the tey pools the chill and stirred from Greenwich month correct the mean shirtly and their shoots are look.

The buttercups are stirring and their shoots are look. The buttercups are stirring and their shoots are look. The meadow rue to pushing up a blade of slender green.

And dwn among the brown old grass the lifty sprout.

The second from Greenwich month correct the mean shirtly correct the mean shirtly and their shoots are look. Now subtract ton means sails corrected R. A. from the star's R. A. and the remainder to the true local time of meridian passage. Apply to this the proper time of meridian passage. Apply to this the proper time of meridian passage. Apply to this the proper time of meridian passage. Apply to this the proper time of meridian passage. Apply to this the proper time of meridian passage. Apply to this the proper time of meridian passage. Apply to this the proper time of meridian passage and the standard time of meridian passage. Apply to this the proper time of meridian passage. Apply to this the proper time of meridian passage. Apply to this the proper time of meridian passage. Apply to this the proper time of meridian passage. Apply to this the proper time of meridian passage. Apply to this the proper time of meridian passage. Apply to this the proper time of meridian passage. Apply to this the proper time of meridian passage. Apply to this the proper time of meridian passage. Apply to this the proper time of meridian passage. Apply to this the proper time of meridian passage. Apply to this the proper time of meridian passage. Apply to this the proper time of meridian passage. Apply to this the proper time of the proper time of meridian passage. Apply to this the proper time of meridian passage. Apply to this the proper time of meridian passage. Apply to this the proper time of meridian passage. Apply to this the proper time of meridian passage. Apply to this the proper time of meridian passage. Apply to this the proper time of meridian passage apply to The dead brown grass that yesterday was frozen suff | W W. Firshoph, Jr. - For information about | Deluge &c., which are familiar to us through intres, and for the Boer republics, see Hillegas's | The British Museum catalogue fills five columes and has been for years or more in preparation Many of the tablets have been to the place where the translation is to be A yast amount of work still remains to be done

STARS WITH LARGE VELOCITIES IN THE LINE OF SIGHT

Measures of velocities of stars in the line f sight at the Lick Observatory have given the following unusually large values (in kilometers per second) Groombroige, 1830 (the Runaway Star),

fy cassioneit, 97 km (approaching) Delta Leporis, 95 km (receding) Theta Couis majoros, 96 km (receding)

t Pegasi, 78 km. (approaching) Yu Sagutarii, 75 km (approaching) 70 km 43.5 miles, 80 km 49.7 miles; 9 km = 55 9 miles; 100 km = 62 1 miles

One of the most important researches : the Lick Observatory is the determination of the solar motion by means of spectroscopic determination of the velocity of stars in the ine of sight Prof Campbell has lately published a resume of this work. The motion f 280 stars has, so far, been determined Neighboring stars are united into one group and the corresponding velocities deduced These vary from 50 kilometers per second (recession) to 24 km (approach). The average velocity of each star in space is 34 km and the sun's velocity results as 19.9 km . or 17 4 miles per second The right-ascension 20° south of the bright star Alpha Lyra, apMew Zublications.

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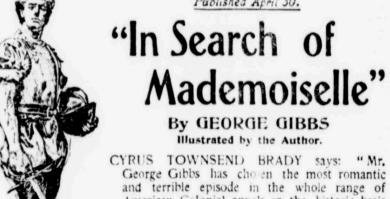
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one of these stars have turned out to be spec- region. roscopic binary stars an entirely unexpected result. It follows that on the average nore than one star in nine is a close binary.

RELATIVE LEVOTH OF THE SEASONS. If the year be divided into two seasons, the varm and the coldithe warm season including the time when the daily temperature is above he annual averages, it is found that the warm season is longer than the cold for nearly all parts of the United States. The excepions are in the Rocky Mountain region and a certain small areas in the lower Lake region and the middle Atlantic States. The longest

the cold season by thirty to fifty days. The longest cold season is found in the The longest cold season is found in the Rocky Mountain region where it exceeds the warm season of the solar apex (the point toward which the sun is moving) is 277° 30° and the declination is +16° 58°. The solar apex is thus about 20° south of the bright star Alpha Lyra approximately.

In the course of these observations two

tained of the spectra of 285 stars. Thirty- days earlier than in the north Pacific coast VARIABLE STARS IN STAR CLUSTERS.

Photographs of star clusters made at the Observatory at Arequipa have shown that n certain clusters a large percentage of the of 19,000 stars examined more than 500 are variable. In one cluster (M. 3) there are 133 variables, in others, 125, 85, 51 variables, respectively. In other clusters there are few or no variables In the cluster Omega Centauri ninety-eight out of 106 variables have warm season is in the Northwest, and on periods of less than twenty-four hours. The the middle California const, where it exceeds | iongest period yet determined is \$75 days; the shortest is 6 hours 11 minutes. largest range in brightness is five magnitudes.